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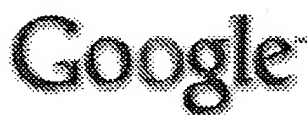
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Dept de Genie Miner, Ecole Polytech de Montreal, Que, Canada.

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## Abstract

Two programs are presented to compute direct- and cross-variograms, direct and cross-covariograms, and pseudo-cross-variograms. The programs are written in MATLAB and are based on the fast **Fourier** transform algorithm (FFT). The programs accept complete, or incomplete, regular grid data. The FFT approach is shown to be faster than the spatial approach for this type of data. It gives exactly the same numerical **variogram** values as programs operating in the spatial domain. These programs could be most useful in image analysis, where images are usually 256\*256 pixels, 512\*512 pixels, or larger. For such large images, FFT is many orders of magnitude faster than the spatial approach. (6 refs).

## Descriptors

~~complete computer programs; fast Fourier transforms; image processing;  
symbol manipulation.~~

**Keywords**

fast **variogram** computation; direct **variogram** computation; cross **variogram** computation; direct covariogram computation; cross covariogram computation; pseudo cross **variogram** computation; MATLAB program; fast **Fourier** transform algorithm; regular grid data; numerical **variogram** values; spatial approach; image analysis.

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